Participant Questionnaire

Participant number: __2__   Date: __6/29/23__

Location: __Brescia, IT__

HRC Study / Algorithms tested: __HAMP, STAP-PPF__

Study Conducted by: __Jared Flowers__

Participant link lengths/dimensions: (**meters**, "spine" is pelvis to shoulder midpoint, "shoulders" is shoulder to shoulder)

Spine		Left Upper Arm	.31	Right Upper Arm	.31
Neck		Left Forearm	.27	Right Forearm	.24
Shoulders	.34				

Participant joint diameter: (**meters**)

Left Elbow	.09	Right Elbow	.10
Left Wrist	.058	Right Wrist	.062

Questions:

A. How safe did you feel? (0 is not safe at all, 5 is neutral, 10 is very safe)

B. Do you think the robot hindered your motions during the task? (0 is robot completely prevented your motions, 5 is neutral, 10 is robot did not impede you motion)

C. Did the robot perform logical motions? (0 is robot motions made no sense to you, 5 is neutral, 10 is robot motions made sense to you)

D. What is your overall satisfaction with the HRC task? (0 is you would not work in this HRC cell again, 5 is neutral, 10 is you enjoyed working in this cell with the robot)

For Task 1 (engine parts): (circle your answer to each question)

Task 1, Method 1:

Question A: (0 is not safe at all, 5 is neutral, 10 is very safe)

0	1	2	3	4	5	6	7	8	⑨	10

Question B: (0 is robot completely prevented your motions, 5 is neutral, 10 is robot did not impede you motion)

0	1	2	3	4	5	6	✗ NO	8	⑨	10

Question C: (0 is robot motions made no sense to you, 5 is neutral, 10 is robot motions made sense to you)

0	1	2	3	4	5	6	7	8	⑨	10

Question D: (0 is you would not work in this HRC cell again, 5 is neutral, 10 is you enjoyed working in this cell with the robot)

0	1	2	3	4	5	6	7	8	⑨	10

Task 1, Method 2:

Question A: (0 is not safe at all, 5 is neutral, 10 is very safe)

0	1	2	3	4	5	6	⑦	8	9	✗10 NO

Question B: (0 is robot completely prevented your motions, 5 is neutral, 10 is robot did not impede you motion)

0	1	2	3	4	5	⑥	7	✗ No	9	10

Question C: (0 is robot motions made no sense to you, 5 is neutral, 10 is robot motions made sense to you)

0	1	2	3	4	5	6	⑦	8	9	✗10 No

Question D: (0 is you would not work in this HRC cell again, 5 is neutral, 10 is you enjoyed working in this cell with the robot)

0	1	2	3	4	5	⑥	7	8	9	✗10 No

Task 1, Method 3:

Question A: (0 is not safe at all, 5 is neutral, 10 is very safe)

0	1	2	3	4	5	6	7	⑧	9	✗10 No

Question B: (0 is robot completely prevented your motions, 5 is neutral, 10 is robot did not impede you motion)

0	1	2	3	4	5	6	⑦	8	9	✗10 No

Question C: (0 is robot motions made no sense to you, 5 is neutral, 10 is robot motions made sense to you)

0	1	2	3	4	5	6	⑦	8	9	✗10 No

Question D: (0 is you would not work in this HRC cell again, 5 is neutral, 10 is you enjoyed working in this cell with the robot)

0	1	2	3	4	5	6	⑦	8	9	✗10 No

Comments:

Participant number: _____2_____   Date: _____

For Task 2 (Sharework parts: metal tabs, cylinders, pallets): (circle your answer to each question)

Task 2, Method 1:

Question A: (0 is not safe at all, 5 is neutral, 10 is very safe)

| 0 | 1 | 2 | **3** | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

Question B: (0 is robot completely prevented your motions, 5 is neutral, 10 is robot did not impede you motion)

| 0 | 1 | 2 | 3 | 4 | **5** | 6 | 7 | 8 | 9 | 10 |

Question C: (0 is robot motions made no sense to you, 5 is neutral, 10 is robot motions made sense to you)

| 0 | 1 | 2 | 3 | **4** | 5 | 6 | 7 | 8 | 9 | 10 |

Question D: (0 is you would not work in this HRC cell again, 5 is neutral, 10 is you enjoyed working in this cell with the robot)

| 0 | 1 | 2 | 3 | 4 | **5** | 6 | 7 | 8 | 9 | 10 |

Task 2, Method 2:

Question A: (0 is not safe at all, 5 is neutral, 10 is very safe)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | **7** | 8 | 9 | 10 |

Question B: (0 is robot completely prevented your motions, 5 is neutral, 10 is robot did not impede you motion)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | **7** | 8 | 9 | 10 |

Question C: (0 is robot motions made no sense to you, 5 is neutral, 10 is robot motions made sense to you)

| 0 | 1 | 2 | 3 | 4 | **5** | 6 | 7 | 8 | 9 | 10 |

Question D: (0 is you would not work in this HRC cell again, 5 is neutral, 10 is you enjoyed working in this cell with the robot)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | **7** | 8 | 9 | 10 |

Task 2, Method 3:

Question A: (0 is not safe at all, 5 is neutral, 10 is very safe)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | **8** | 9 | 10 |

Question B: (0 is robot completely prevented your motions, 5 is neutral, 10 is robot did not impede you motion)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | **7** | 8 | 9 | 10 |

Question C: (0 is robot motions made no sense to you, 5 is neutral, 10 is robot motions made sense to you)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | **8** | 9 | 10 |

Question D: (0 is you would not work in this HRC cell again, 5 is neutral, 10 is you enjoyed working in this cell with the robot)

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | **8** | 9 | 10 |

Comments:

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